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	Application No.	Applicant(s)		
Nation of Allowahility	10/028,435	VILLAREAL ET AL.	·	
Notice of Allowability	Examiner	Art Unit		
	Dung (Michael) T Nguyen	2828		
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>01/15/04</u> .				
2. The allowed claim(s) is/are <u>1-26</u> .				
3. \boxtimes The drawings filed on <u>28 December 2001</u> are accepted by	the Examiner.			
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No		ion from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the req	uirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers		948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of	
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			lote the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTC	D-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary Paper No./Mail Dat			
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	08), 7. Examiner's Amendn	nent/Comment		
4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Stateme	nt of Reasons for Allo	wance	
of Biological Material	9.			
Don Wong Supervisory Patent Examiner Technology Center 2809				

DETAILED ACTION

Allowable Subject Matter

Claims 1-26 are allowed.

The following is an examiner's statement of reasons for allowance: The examiner has reviewed the prior art in light of applicant's claimed invention and finds that the claims define over the prior art. The prior art does not disclose or suggest inter alia the limitations "... A distributed Bragg reflector, comprising: a doped first semiconductor layer including a first binary composition and having a first index of refraction; a doped second semiconductor layer including a second binary composition and having a second index of refraction that is different than said first index of refraction; and a first transition region interposed between said first semiconductor layer and said second semiconductor layer, wherein said first transition region includes a plurality of doped first transition semiconductor layers having a plurality of thicknesses and a plurality of doping levels".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Communication Information

Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Dung (Michael) T Nguyen whose telephone

number is (571) 272-1949. The examiner can normally be reached on 8:30 -

17:00.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax

phone numbers for the organization where this application or proceeding is

assigned are (703) 306-5511 for regular communications and (703) 306-5511 for

After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703)

306-3329.

Nguyen (Michael) Dung

Supervisory Patent Skaminer
Technology Center 2800